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*****
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* Accept no substitutes, *REAL* ham radio lives on 220 MHz! *

Date: Wed, 09 Mar 94 21:27:18 PST
From: ihnp4.ucsd.edu!agate!howland.reston.ans.net!gatech!newsxfer.itd.umich.edu!
nntp.cs.ubc.ca!mala.bc.ca!oneb!ham!emd@network.ucsd.edu
Subject: Icom IC22A Crystals?
To: ham-equip@ucsd.edu

garym@alsys.com (Gary Morris @ignite) writes:

> In <1994Mar7.180827.27364@news.unr.edu> jim@shadow.scs.unr.edu (James Mueller
> >I recently ordered 2 pairs of crystals to put my Icom IC22A on
> >2 local packet frequencies: 144.95 & 144.97. When the crystals
> >arrived and were installed, they gave operating frequencies of 144.93
> >& 144.95 respectively, 20 kHz below the desired frequencies.
>
> > (1) $T = F_{tx} / 8$
> > (2) $R = (F_{rx} - 10.7) / 9$
> >The crystal capacitance is specified as 20 pf for both R and T.
>
> That is what is in the IC-22A manual. But the manual also states that
> this radio covers either 144-146 *or* 146-148. It also says that "the
> amount of frequency spread between any two receiving or any two transmitting
> frequencies should not exceed 2 Mhz". I don't know exactly why it has
> this limitation. I have had no trouble with crystals (I've added several
> channels) but I have nothing below 146 Mhz.
>
> --GaryM
>
> P.S. Detailed specs for crystals are: HC-25/u, 0.0025% tolerance, 20pF load
> cap, effective resistance: 15 ohms or less, cut: "AT" optimum angle +/- 2min.

Because when the IC-22A was developed, we didn't have really broadbanded receivers or transmitters, in general. (Which is also why 2M repeaters above 147 MHz have +600 KHz inputs and those below 147 have -600 KHz inputs - so the narrow banded receivers of the day could be tuned to only cover 146.6 to 147.4 for repeater on both 146 and 147)

The only thing that happens to an IC-22A is that rx sensitivity drops off somewhat as you go lower in frequency. I don't have any problem operating one on packet frequencies, nor do my crystals operate off frequency.

I suggest you return them and ask for them to be put on frequency.

Robert Smits
VE7EMD
Ladysmith B.C.
e-mail: emd@ham.almanac.bc.ca

There is *no* idiotproof filter.
Idiots are proof against anything!
- Richard Chycoski, VE7CVS

Date: Thu, 10 Mar 1994 11:23:35 GMT
From: ihnp4.ucsd.edu!agate!howland.reston.ans.net!wupost!csus.edu!netcom.com!
feustel@network.ucsd.edu
Subject: PC-Based 2GHz RF Generator?
To: ham-equip@ucsd.edu

The current issue of Electronics Now has an article on a 2GHz RF
function generator implemented as an IBM PC board. Does anyone have
any information on or opinion about this product? Thanks.

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Dave Feustel N9MYI Internet:<feustel@netcom.com> Compuserve:<73532,1747>

Date: Thu, 10 Mar 1994 07:53:05 GMT
From: ihnp4.ucsd.edu!agate!howland.reston.ans.net!pipex!uknet!EU.net!
Germany.EU.net!Munich.Germany.EU.net!thoth.mch.sni.de!news.sni.de!kassel!nessos!
schro@network.ucsd.edu
Subject: Value of Yaesu 757GX II ??
To: ham-equip@ucsd.edu

In <wrothCM79zv.KCr@netcom.com> wroth@netcom.com (Wayne D Roth) writes:

>Kenneth Guthrie (Kenneth.Guthrie@launchpad.unc.edu) wrote:
>: Hello All,

>: I have a friend who wants to trade me a Yaesu 757GX II in on a ham radio I
>: have. The radio has the matching power supply with it and both are in
>: excellent condition but I have no idea of the value of his equipment nor
>: how hard/easy it would be to re-sell. Any ideas?

>I was able to get \$625 for my 757GXII without power supply when I sold
>it. It's a good rig, with the exception of only having 10 memory
>channels, and not being able to store splits in memory (for 10m
>repeaters). Also the front end overloads fairly easily if you have the
>"preamp" on.

>73's,
>Wayne
>WA2N / 5
>--

>

wroth@netcom.com

I hate it! Had one on loan for two years, it's still better to have a 757 than no TRX at all.

There is an internal interference at abt 14.080 that changes with the 1kHz digit of the display and also when switching the notch filter on and off. I found out when i tried to copy a week RTTY station there.

I often change between wide and narrow filters. Going from CW-N to CW-W requires to push the mode button *5* times.

My main interest is RTTY, AMTOR and FAX, feeding the AFSK tones to the MIC socket. The 757GXII has a 600Hz CW filter and you need it on a crowded band, but with this brain-damaged rig you can't use it in LSB/USB mode, and in CW mode it ignores the MIC input.

When i started with AMTOR it didn't work with "nearby" stations. After releasing PTT it took 52ms(!) until there was a signal at the RX output. When it finally comes back the answer from the other station is already gone.

For voice/CW it's probably ok. If you are interested in digital modes then stay away from it. Also it can be easily modified for higher TX output, especially on lower bands. A friend of mine reports 200+ watts on 80/40m.

73 de Django
DL5YEC

End of Ham-Equip Digest V94 #59
